



Tools to Determine Site Suitability for Living Shoreline Projects

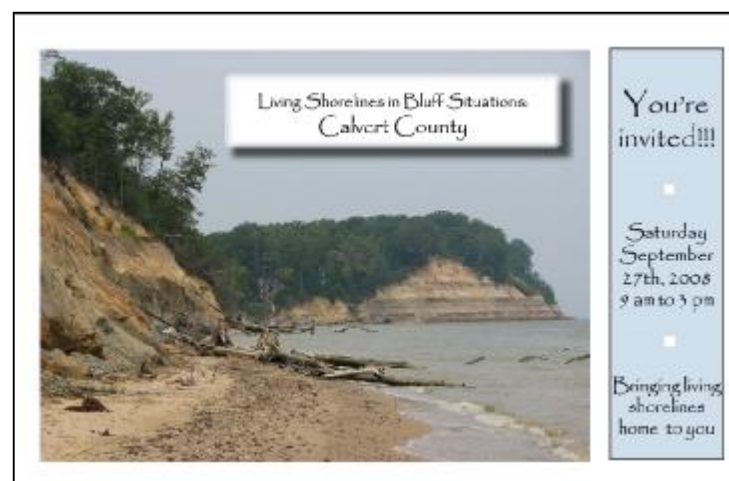
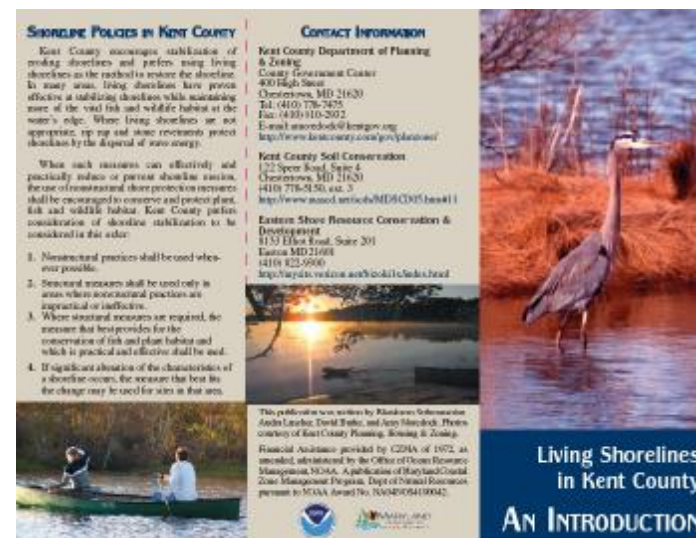
August 29, 2009

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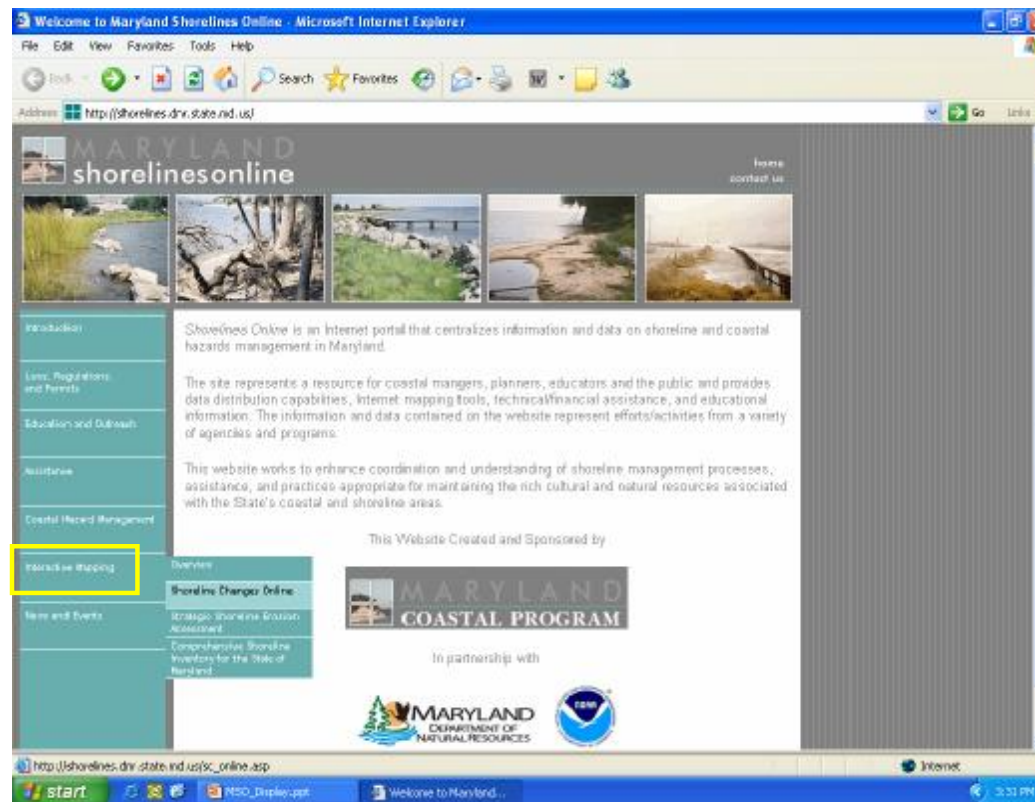


Maryland Department of Natural Resources

- Living Shorelines Professionals training
- Living shorelines pamphlets & literature
- Shoreline education lessons
- Site visits
- Living Shorelines outreach & education training events



<http://shorelines.dnr.state.md.us>





- Regulatory information
- K-12 coastal hazard education lessons and fact sheets
- Interactive mapper

Maryland Shoreline Changes Online

<http://shorelines.dnr.state.md.us>

Quick tools and information to look at:

Fetch

Exposure

Shoreline erosion control

Historical shoreline change

Technical & financial assistance

Research

Shoreline Inventory

Living Resources & Habitats

Shoreline access points

Bank condition

Buffers

Sea level rise & flood inundation

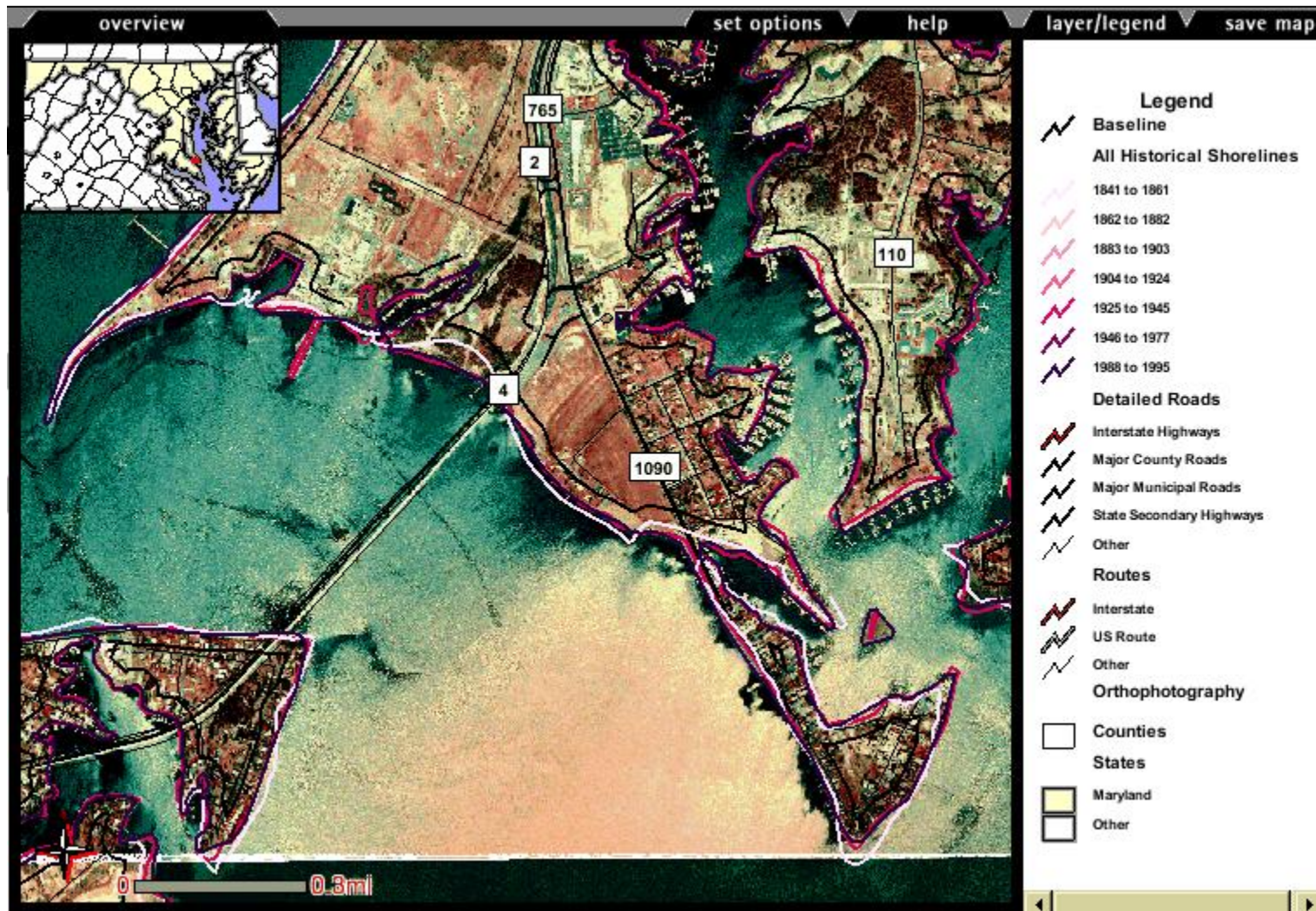
Living shorelines

Education lessons & fact sheets

Living Shorelines Suitability

Erosion Vulnerability

Historical Shorelines



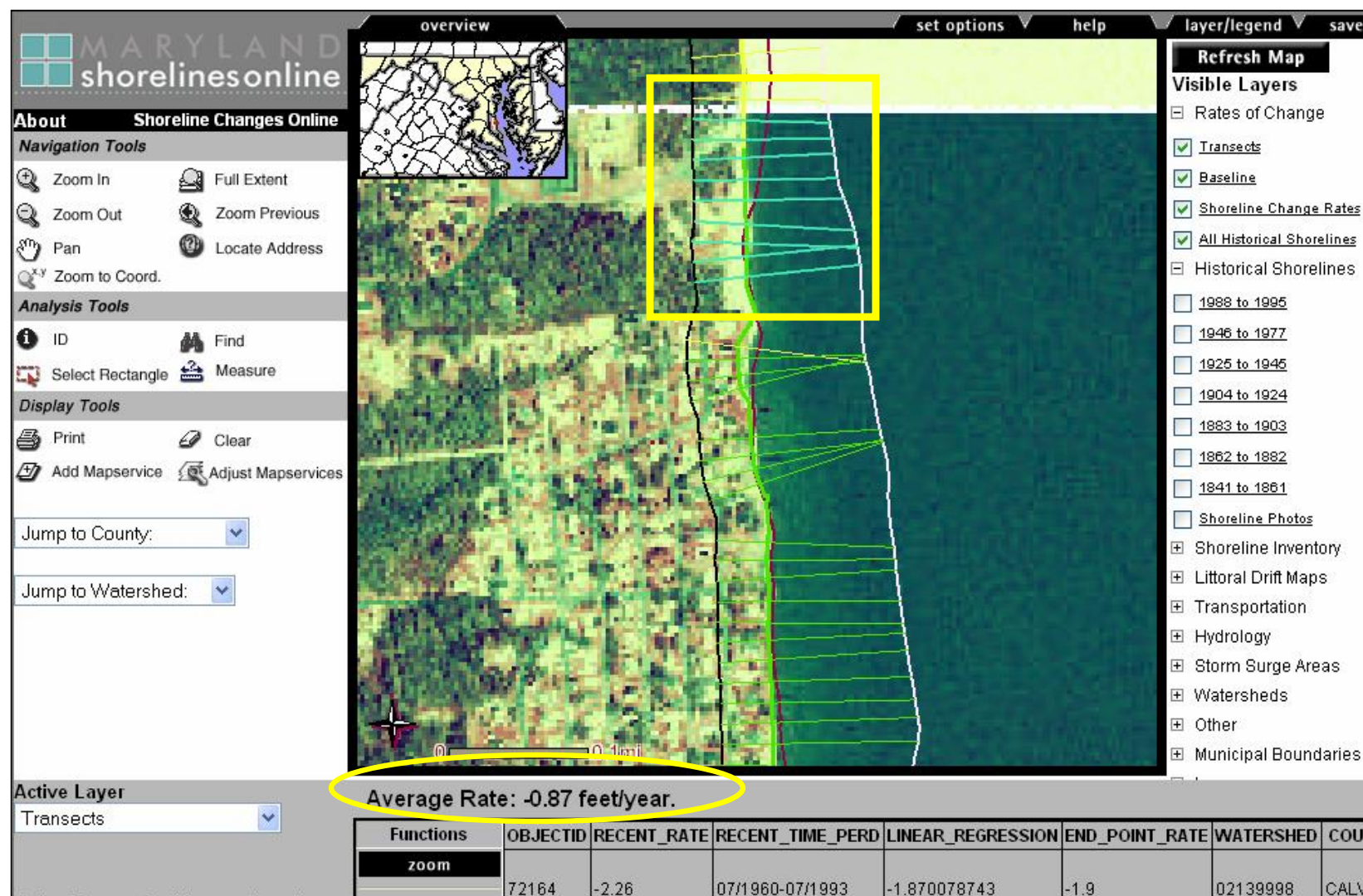
Shorelines
from late
1800s
through
1995

Historical Shoreline Change



Quick estimates of rates of shoreline change on your property or community

How much historic change is present?



What structures are already present?



Bulkheads and riprap are being used to prevent shoreline erosion.

There are docks and piers located along the shoreline.

Shoreline Stabilization Structures



Living Shorelines

Marsh Creation

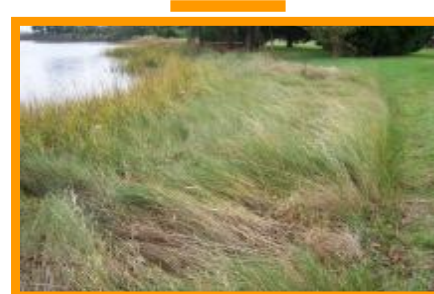
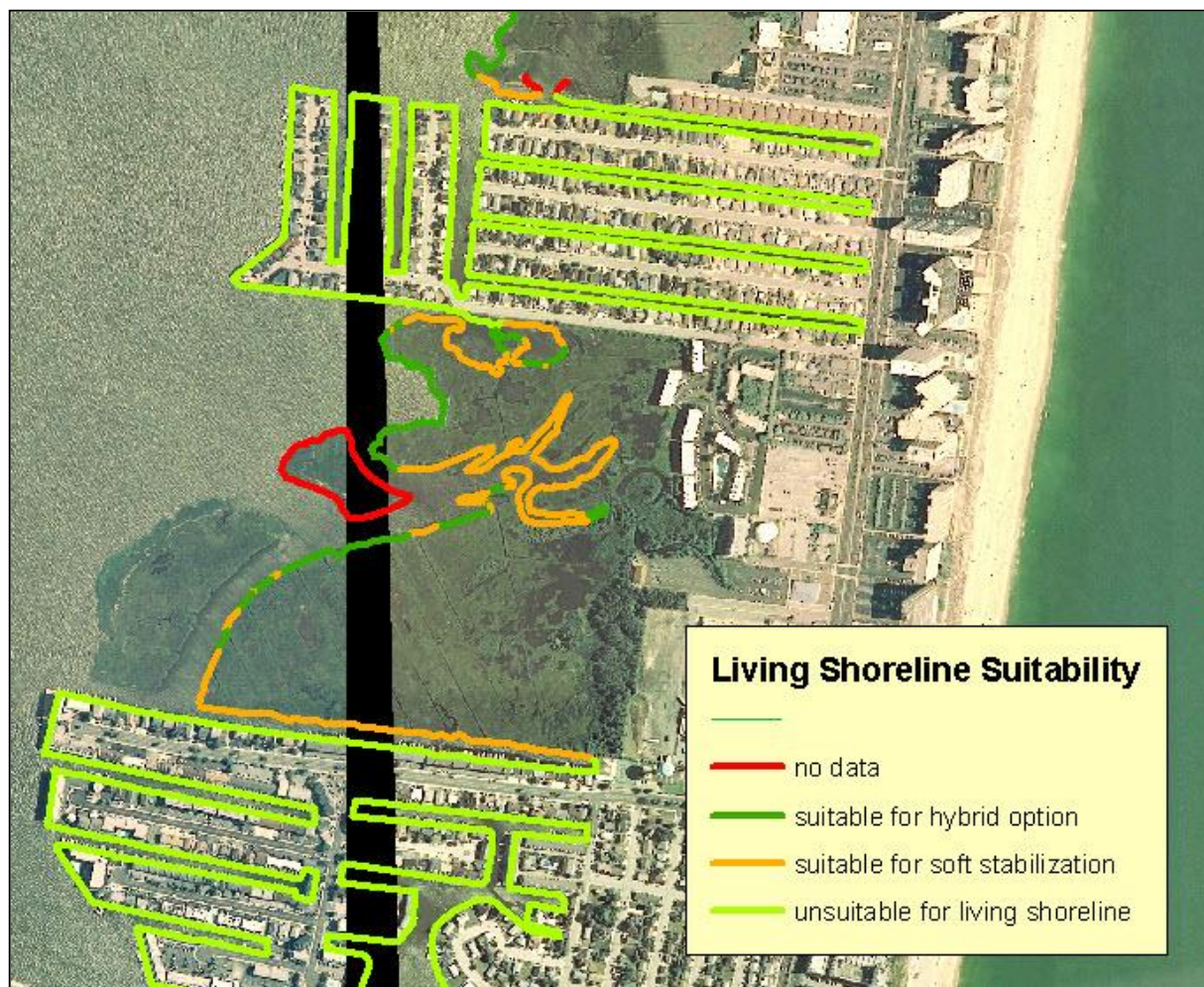


Hybrid Options



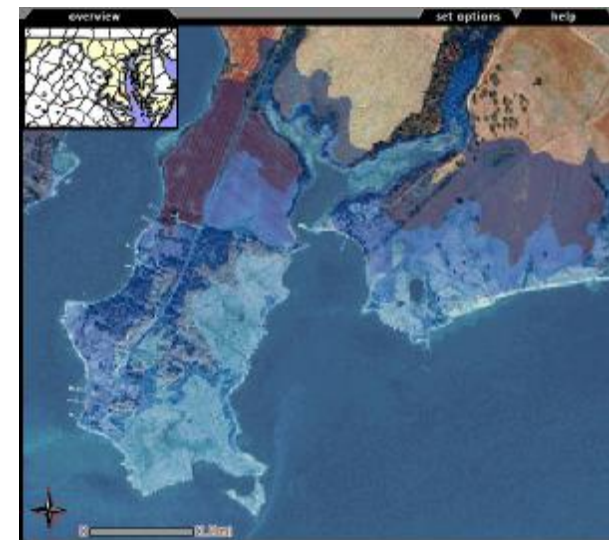
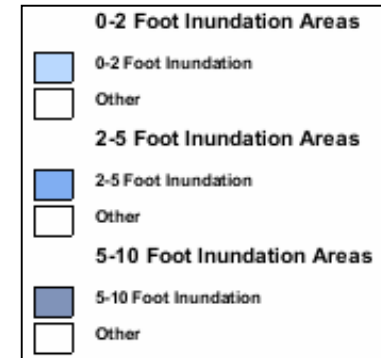
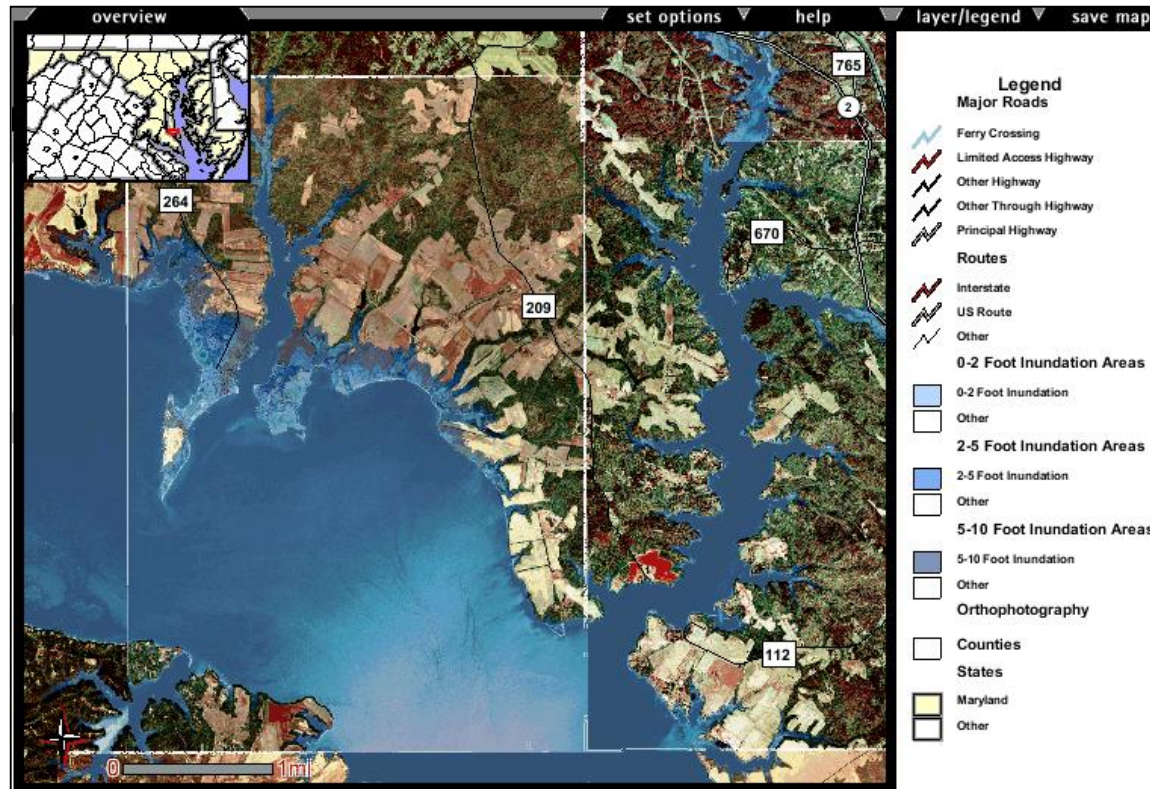
Living shorelines are known to minimize impacts to existing tidal habitat, enhance habitat, and perform various ecosystem functions while still providing effective erosion control.

Living Shoreline Suitability Pilot Project

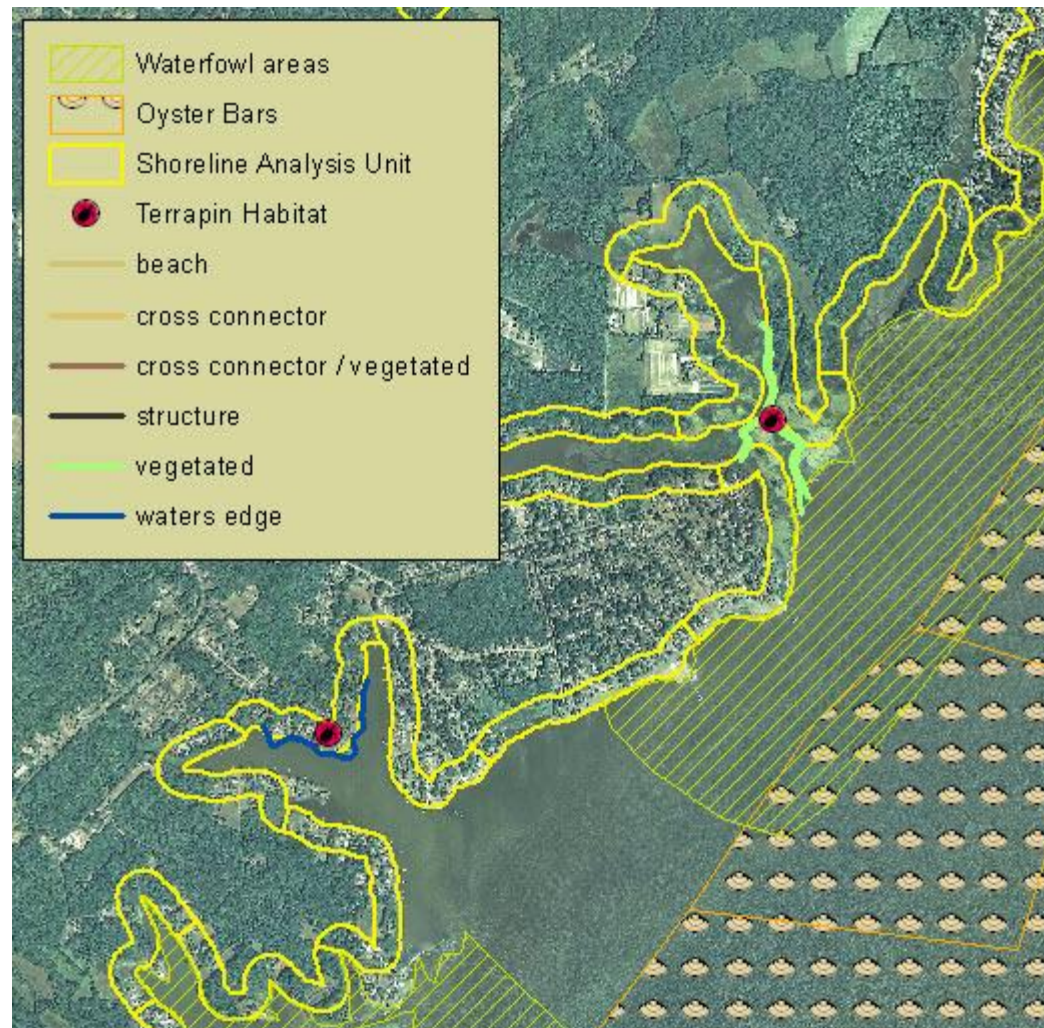


Screening for Living Shoreline Suitability

Sea Level Rise Vulnerability



Living Resources & Coastal Habitat



Mapper Trainings

MARYLAND
shorelinesonline



SHORELINE MANAGEMENT TOOLBOX

TRAINING WORKSHOP

Presented by:

The Maryland Chesapeake & Coastal Program
Maryland Department of Natural Resources
<http://shorelines.dnr.state.md.us>



Print copies and
electronic copies on CD
are available

A 2 hour training
workshop is periodically
offered

Training courses also
available “by request” for
individuals and
communities

In The Zone – Service News

- The Chesapeake and Coastal Program offers a periodic service news that highlights upcoming trainings, events, and program news, including RFP opportunities.
- To sign up, visit:
<http://www.dnr.state.md.us/bay/czm/>



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What the Chesapeake & Coastal Program can assist you with:

- Literature/Guides on living shorelines and shoreline change
- Mapping trainings – individual or community
- Mapping assistance
- Facilitation of printed shoreline condition maps
- Notification of trainings and other opportunities to learn more
- Site visits to discuss shoreline options

Questions?

Please visit:
<http://shorelines.dnr.state.md.us/>



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